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L1: Entry 2 of 4

File: USPT

Jul 9, 1991

DOCUMENT-IDENTIFIER: US 5030442 A

TITLE: Non-crystalline minoxidil composition

Brief Summary Paragraph Right (4):

European patent application No. 177,223 discloses a liposomal minoxidil composition in which minoxidil is present (1) in solution form possibly in a supersaturated state, either encapsulated in lipid vesicles, or in the aqueous or lipid phases of a liposome suspension, and (2) in a finely divided crystalline (solid) form both within and outside the lipid vesicles. Preferred embodiments of the composition are formed by hydrating a minoxidil lipid film containing a saturated phosphatidylcholine (PC), such as dipalmitoylphosphatidylcholine (DPPC), cholesterol, and minoxidil in ethanol/propylene glycol and water. Minoxidil is present at a final weight concentration of between about 1.2-3%. The composition was found to contain liposomes of various sizes between about 1 .mu. to 15 .mu., and more importantly minoxidil crystals. Although the formulation is reported to increase drug uptake by the epidermis when applied topically to skin, it has the same limitation as the above non-liposomal formulation in that the drug is applied to the skin largely in crystalline form.

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L1: Entry 1 of 4

File: USPT

Jul 24, 2001

US-PAT-NO: 6264979

DOCUMENT-IDENTIFIER: US 6264979 B1

TITLE: Transdermal device for administration through de-epithelialized skin

DATE-ISSUED: July 24, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Svedman; Pal	Malmo			SEX

US-CL-CURRENT: [424/449](#); [424/447](#), [424/448](#), [424/450](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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☐ 2. Document ID: US 5030442 A

L1: Entry 2 of 4

File: USPT

Jul 9, 1991

US-PAT-NO: 5030442

DOCUMENT-IDENTIFIER: US 5030442 A

TITLE: Non-crystalline minoxidil composition

DATE-ISSUED: July 9, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Uster; Paul S.	Palo Alto	CA		
Quinn; Yolanda P.	Daly City	CA		

US-CL-CURRENT: [424/45](#); [264/4.1](#), [424/450](#), [428/402.2](#), [514/256](#), [514/275](#), [514/78](#),  
[514/880](#), [514/944](#), [514/947](#), [514/969](#), [514/975](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 3. Document ID: US 4828837 A

L1: Entry 3 of 4

File: USPT

May 9, 1989

US-PAT-NO: 4828837

DOCUMENT-IDENTIFIER: US 4828837 A

TITLE: Non-crystalline minoxidil composition, its production and application

DATE-ISSUED: May 9, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Uster; Paul S.	Palo Alto	CA		
Quinn; Yolanda P.	Daly City	CA		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.6, 424/449, 424/45, 428/402.2, 436/829,  
514/78, 514/944, 514/947, 514/969

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 4. Document ID: WO 200154666 A1, US 2001033861 A1, AU 200134670 A

L1: Entry 4 of 4

File: DWPI

Aug 2, 2001

DERWENT-ACC-NO: 2001-581617

DERWENT-WEEK: 200165

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TITLE: Liposome composition useful as carrier e.g. in drug delivery comprises a drug entrapped in a central compartment of the liposome in supersaturated condition

INVENTOR: ABRA, R M; BARENHOLZ, Y ; LASIC, D D ; PELEG-SHULMAN, T ; PELEG-SCHULMAN, T

PRIORITY-DATA: 2000US-178650P (January 28, 2000), 2001US-0771151 (January 26, 2001)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200154666 A1	August 2, 2001	E	050	A61K009/127
US 2001033861 A1	October 25, 2001		000	A61K009/127
AU 200134670 A	August 7, 2001		000	A61K009/127

INT-CL (IPC): A61 K 9/127; A61 K 33/24

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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Terms	Documents
liposome\$ same (supersaturated)	4

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## WEST Search History

DATE: Thursday, March 21, 2002

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
	<i>DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>		
L1	liposome\$ same (supersaturated)	4	L1

END OF SEARCH HISTORY